Coronary artery perforation (CAP) remains a feared complication of percutaneous coronary intervention (PCI). Here we present three cases of coronary artery rupture - all LAD perforations', which were treated accordingly. CAPs are classified according to the Ellis classification into three groups. Type 1 and 2 perforations are predominately caused by hydrophilic and stiff wires and do not require pericardial drainage or surgical intervention. Type 3 perforations are more often associated with stent and device use and can be initially managed by percutaneous methods, but might require surgical assistance. CAP complicating percutaneous coronary intervention is rare, and its morbidity and mortality vary directly with Ellis classification. Management discrepancies highlight the need to establish a uniform treatment paradigm for CAP.

KEYWORDS: coronary artery rupture, Ellis classification, percutaneous coronary intervention.

Literature